

ABSTRACT OF THE DISCLOSURE

Fluorine compounds such as C_2F_6 , CF_4 , CHF_3 , SF_6 and NF_3 , are made in contact with a fluorine compound decomposition catalyst and a catalyst the decomposition oft least one of CO , SO_2F_2 and N_2O in the presence of water or in the presence of water and oxygen. The catalyst the decomposition oft least one of CO , SO_2F_2 and N_2O preferably contains at least one selected from Pd , Pt , Cu , Mn , Fe , Co , Rh , Ir and Au in the form of a metal or an oxide. According to the invention, the fluorine compound can be converted to HF , which is liable to be absorbed by water or an alkaline aqueous solution, and a substance, such as CO , SO_2F_2 and N_2O , formed by decomposition of the fluorine compound can also be decomposed.

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